Docket No. SAIC0006-CON1

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Ip e Patent Application of

Richard SUTHERLAND, et al.

Group Art Unit: 1756

Serial No.: 10/796,071

Examiner: Martin J. Angebranndt

Filed: March 10, 2004

For: SYSTEM AND METHOD FOR REPLICATING VOLUME HOLOGRAMS

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §§ 1.97 AND 1.98

U.S. Patent and Trademark Office Customer Service Window, Mail Stop Amendment Randolph Building 401 Dulany Street Alexandria, VA 22314

Sir:

In accordance with the requirements of 37 C.F.R. §§ 1.56, 1.97-1.98 and MPEP § 609, the references noted on the attached form PTO-1449 are hereby brought to the attention of the Examiner.

No fees are believed to be necessary since the references cited in this statement are being submitted after the filing of a Request for Continued Examination (RCE), but prior to a First Office Action after the filing of the RCE. The Commissioner is hereby authorized to charge any additional fees under 37 C.F.R. 1.16 or 1.17 which may be required during the

Docket No. SAIC0006-CON1

U.S. Serial No.: 10/796,071

- 2 -

entire pendency of this application, or to credit any overpayment, to Deposit Account No. 501458. A duplicate copy of this letter is submitted herewith for that purpose.

The above information is presented so that the United States Patent and Trademark

Office may, in the first instance, determine any materiality thereof to the claimed invention.

See 37 C.F.R. §§ 1.104(a) conferring the PTO duty to consider and use any such information.

It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

Respectfully submitted,

Date: 6 17 05

By:

George T. Marcou Registration No. 33,014

KILPATRICK STOCKTON LLP Suite 900 607 14th Street, N.W. Washington, D.C. 20005 (202) 508-5800

36609/297074 WSHLIB01:210390

Form PTO-1449 (Rev. 2-32) U.S. Department of Commerce Patent & Trademark Office			Atty. Docket No. SAIC0006		Serial No. 09/577,166		
6	1 (bse	ON DISCLOSURE STATEMI Percul sheets if necessary)	ENT	Applicant Richard L. SUTHERLAND, et al.			
E.	17			Filing Date Group May 24, 2000 1756			1756
	Z& TRAC	EMI	U.S. PATEN	T DOCUMENTS			
Examiner Initial		Document Number	Date	Name	Class	Sub- Class	Filing Date (if appropriate)
	<u></u>	FO	REIGN PAT	ENT DOCUMENTS	3		
	*	WO 99/09440	2/25/99	Foster-Miller, Inc.	G02B	6/12	8/13/98
	*	JP 10319237	12/4/98	Fuji Xerox Co. Ltd.	G02B	5/32	5/22/97
	*	EP 0 867 749 A2	9/30/98	Xerox Corporation	G02F	1/1335	3/12/98
	*	EP 0 856 768 A2	8/5/98	Xerox Corporation	G02F	1/1347	1/27/98
	*	EP 0 856 766 A2	8/5/98	Xerox Corporation	G02F	1/1333	1/27/98
	*	EP 0 856 765 A1	8/5/98	Xerox Corporation	G02F	1/1333	1/23/98
	*	WO 98/04650	2/1998	Sutherland, et al.	430	1	
	*	WO 97/27519	7/31/97	Foster-Miller, Inc.	G03H	1/04	1/29/97
EXAMINER IN	itial if ci	tation considered, whether or not lered. Include copy of this form v	citation is in confor	DATE CONSIDER mance with MPEP 609; draw lination.		f not in conforma	nce and not

^{*} Reference cited in parent (Application Serial No. 09/577,166), and not provided herewith.

	*	GB 2 292 745	3/6/96	Merck Patent GmbH	C09K	19/44	3/8/95
17 2005 B	*	DE 44 08 746 A1	9/21/95	Medolas Ges Fuer Medizintechni	A61B	17/36	3/15/94
TRADEMENT	*	EP 0 672 386 A1	9/20/95	Surgical Systems & Instruments, Inc.	A61B	17/22	3/10/94
	*	WO 95/17127	6/29/95	Rygaard, Jorgen	A61B	17/11	4/12/94
	*	GB 2 281 566	3/8/95	Merck Patent GmbH	C09K	19/30	9/2/94
	*	JP 6-190185	4/27/94	Zanussi Elettrodomestici (IT)	D06F	39/12	
	*	WO 94/04958	3/3/94	Merck Patent GmbH	G02F	1/1333	8/12/93
	*	JP 03-188479 A	08/1991	Eguchi, et al.	359	12	
	*	EP 0 422 689 A2	4/17/91	Mountpelier Investments, S.A.	A61M	25/00	1/9/87
	*	SU 1635966	3/23/91	Sverdlovsk G Med. Inst.	A61B	17/00	3/17/88
	*	GB 2 222 696	3/14/90	Exitech Ltd.	G03H	1/04	7/9/88
	*	WO 89/06264	7/13/89	Hughes Aircraft Company	C09K	19/00	11/21/88
	*	JP 01-068784 A	3/1989	Yamazaki, et al.	359	12	
	*	JP 60189729 A	9/27/85	Ricoh Co. Ltd.	G02F	1/133	3/9/84
EXAMINER				DATE CONSIDER	ED		

considered. Include copy of this form with next communication.

^{*} Reference cited in parent (Application Serial No. 09/577,166), and not provided herewith.

		FO	REIGN PAT	ENT DOCUMENTS	S	T	
	*	EP 0087281	8/1983	Ikeda, et al.	359	12	
	*	WO 81/00668	3/19/81	Jansen, Anton	A61B	17/11	9/5/80
	*	CA 544591	8/6/57	National Research Development Corp.			
	O'	THER DOCUMENT	S (Including	Author, Title, Date, 1	Pertinent Pag	ges, Etc.)	
	*	International Searc	h Report, date	ed September 5, 200	l .		
	*	International Searci 1998 (mailing date)		Application No. PCT	/US97/1257	7, dated Jan	uary 14,
	*	Written Opinion fo date)	r Application	No. PCT/US97/125	77, dated Ap	oril 28, 1998	(mailing
	*	Preliminary Examination Report for Application No. PCT/US97/12577, dated Septembe 3, 1998 (mailing date)					
	*	European Search Report for Application No. EP 97 93 7988, dated October 13, 1999					
	*	International Search Report for Application No. PCT/US00/34661, dated July 17, 2001					
	*	International Search Report for Application No. PCT/US01/40691, dated September 5, 2001 (mailing date)					
	*	International Preliminary Examination Report for Application No. PCT/US00/34661, dated February 20, 2002				0/34661,	
	*	Written Opinion for Application No. PCT/US01/40691, dated May 15, 2002 (mailing date)					
	*	Preliminary Examination Report for Application No. PCT/US01/40691, dated September 10, 2002 (mailing date)					
	*			functionality Effects i , pp. 733-741, 2000	n the Anisot	ropic Phase	Separation
						····	
EXAMINE	R			DATE CONSIDER	RED		

^{*} Reference cited in parent (Application Serial No. 09/577,166), and not provided herewith.

OTH	IER	DOCUMENTS CONT'D. (Inclu	ading Author, Title, Date, Pertinent Pages, Etc.)
	*	M. Escuti, et al., "5.3: A Model Configuration," SID Internation pp. 32-35, May, 1999	of the Fast-Switching Polymer-Stabilized IPS al Symposium, Digest of Technical Papers, First Edition,
	*	C. C. Bowley, et al., "45.3: Electron Monomer Functionality on Dispos of Technical Papers, First Edition	ctro-Optic Investigations of H-PDLCS: The Effect of clay Performance," SID International Symposium, Digest on, pp. 958-961, May, 1999
	*		in Holographic Polymer Dispersed Liquid Crystal <i>Materials and Devices</i> , Mat. Res. Soc. Symposium 07, 1999
	*	C. C. Bowley, et al., "Morpholo Crystals (H-PDLC)," <i>Mol. Cryst</i>	gy of Holographically-Formed Polymer Dispersed Liquid t. Liq. Cryst., Vol. 331, pp. 209-216, 1999
	*		ective Display Device Using Holographically Fabricated tal (HPDLC)," Journal of the Society for Information, 1999
	*		g Pixels: A New Application for Polymer Dispersed Cryst. Liq. Cryst., Vol. 331, pp. 165-172, 1999
	*	Seferis, James C., "Refractive In Wiley & Sons, Inc., pp. 571-582	ndices of Polymers," <i>Polymer Handbook</i> , 4 th Edition, John 2, Copyright 1999
	*		witchable Holograms for Displays and Other s, Vol. 3421, pp. 8-18, June, 1998
	*		phic PDLCs for Optical Beam Modulation, Deflection, s," SPIE Proceedings, Vol. 3292, pp. 44-51, January 28-
	*		Victor N. Mikhailov, and Vitaly N. Krylov, "Hologram lymer Films by Use of Pulse Exposure," <i>Optics Letters</i> , 1997
	*		ally Switchable Holograms Containing Novel PDLC Vol. 3143, pp. 182-190, July 28-29,1997
EXAMINER			DATE CONSIDERED
		ation considered, whether or not citation is in confor	mance with MPEP 609; draw line through citation if not in conformance and not ation.

^{*} Reference cited in parent (Application Serial No. 09/577,166), and not provided herewith.

OTHE	R DOCUMENTS CONT'D. (Including Author, Title, Date, Pertinent Pages, Etc.)
*	N. M. Lawandy, et al., "L1.3: Lasing Pixel PDLC Light Valves for Projection Applications," SID International Symposium, Digest of Technical Papers, First Edition, pp. 1001-1004, May, 1997
*	G. P. Crawford, et al., "Reflective Color LCDs Based on H-PDLC and PSCT Technologies," <i>Journal of the Society for Information Display</i> , Vol. 5, No. 1, pp. 45-48, 1997
*	V. N. Mikhailov, K. T. Weitzel, V. N. Krylov, and Urs. P. Wild, "Pulse Hologram Recording in DuPont's Photopolymer Films," <i>SPIE</i> , Vol. 3011, pp. 200-202, 1997
*	D. Schwarze-Haller and F. Noack, "Nuclear Magnetic Resonance Field-Cycling Proton Relaxation Study of Polymer Dispersed Liquid Crystals," <i>J. Chem. Phys.</i> , Vol. 105, No. 11, pp. 4823-4832, September, 1996
*	G. P. Crawford, T. G. Fiske, L. D. Silverstein, "Reflective Color LCDs Based on H-PDLC and PSCT Technologies," <i>SID International Symposium Digest of Applications Papers</i> , May 14-16, 1996, p. 99
*	Lawrence H. Domash, et al., "Switchable-Focus Lenses in Holographic Polymer Dispersed Liquid Crystal," SPIE, Vol. 2689, pp. 188-194, May, 1996
*	Richard L. Sutherland, et al., "The Physics of Photopolymer-Liquid Crystal Composite Holographic Gratings," <i>SPIE Proceedings</i> , Vol. 2689, pp. 158-169, May, 1996
*	T. J. Bunning, et al., "Liquid Crystals for Advanced Technologies," <i>Materials Research Society</i> , pp. 331-343, April 8-11, 1996
*	R. L. Sutherland, et al., "Switchable Bragg Gratings Formed <i>in situ</i> Within a Polymer-Dispersed Liquid Crystal Composite Medium," <i>Materials Research Society Symp. Proc.</i> Vol. 425, pp. 331-341, April 8-11, 1996
*	Timothy J. Bunning, et al., "The Effects of Eliminating the Chain Extender and Varying the Grating Periodicity on the Morphology of Holographically Written Bragg Gratings," SPIE Proceedings, Vol. 2651, pp. 44-54, January 31 – February 1, 1996
*	T. J. Bunning, et al., "Morphology of Reflection Holograms Formed <i>in situ</i> Using Polymer-Dispersed Liquid Crystals," <i>Polymer</i> , Vol. 37, No. 14, pp. 3147-3150, 1996
EXAMINER	DATE CONSIDERED
EXAMINER: Initial if c	itation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not dered. Include copy of this form with next communication.

^{*} Reference cited in parent (Application Serial No. 09/577,166), and not provided herewith.

ТО	HER	DOCUMENTS CONT'D. (Include	ling Author, Title, Date, Pertinent Pages, Etc.)
	*		rium NMR and Morphology Study of Polymer-Gratings," <i>Europhysics Letters</i> , Vol. 36, No. 6, pp. 425-
	*		nalysis of Periodic Polymer-Dispersed Liquid Crystal n Applications," SPIE Proceedings, Vol. 2532, pp. 309-
	*	Tondiglia, et al., "Volume Hologi Vol. 20, No. 11, pp. 1325-1327, J	raphic Image Storage and Electro-Optic," <i>Opt. Lett.</i> , fune, 1995
	*		vitchable Holograms in New Photopolymer-Liquid PIE Proceedings, Vol. 2404, pp. 132-143, February 9-
	*		ro-Optical Properties of Polymer/(Liquid Crystal) wo-Step Phase Separation Method," Chemistry Letters,
	*	R. L. Sutherland, et al., "Electrica Liquid Crystals," Appl. Phys. Lett	ally Switchable Volume Gratings in Polymer-Dispersed t., Vol. 64, No. 9, pp. 1074-1076, February 28, 1994
	*		velopment of Photopolymer-Liquid Crystal Composite Applications," <i>SPIE Proceedings</i> , Vol. 2152, pp. 303-
	*	J. Zhang, et al., "Switchable Holo SPIE, Vol. 2042, pp. 238-247, Jan	ograms Recorded in Liquid Crystalline Monomers," nuary, 1994
	*		ly Formed Liquid-Crystal/Polymer Device for Reflective ciety for Information Display, Vol. 2, No. 1, pp. 37-38,
	*		e Beamlet Generator, Dynamic Lens, and Optical ched Holographic Devices," SPIE Proceedings, Vol. 1993
EXAMINER			DATE CONSIDERED
EXAMINER: Init		tation considered, whether or not citation is in conformation in conformation in the communication in the communication is in communication.	ance with MPEP 609; draw line through citation if not in conformance and not

^{*} Reference cited in parent (Application Serial No. 09/577,166), and not provided herewith.

an Acrylate Polymer Consisting of Periodic Polymer-Dispersed Liquid-Crystal Planes," Chem. Mater., Vol. 5, pp. 1533-1538, 1993 * D. J. Lougnot, N. Noriet, and C. N. Turck, "Photopolymers for Holographic Recording: IV. New Self-Processing Formulations Based on β-Hydroxy Ethyloxazolidone Acrylate Pure Appl. Opt., Vol. 2, pp. 383-392, 1993 * H. I. Bjelkhagen, J. Chang, and K. Moneke, "High-Resolution Contact Denisyuk Holography," Applied Optics, Vol. 31, No. 8, pp. 1041-1047, March 10, 1992 * Hideya Murai, et al., "Electro-Optic Properties for Liquid Crystal Phase Gratings," SPIE Proceedings, Vol. 1665, pp. 230-239, February 11-13, 1992 * Lawrence H. Domash, "Applications of Dynamic Holograms for Quasi-Volume Storage SPIE Proceedings, Very Large Optical Memories-Materials and System Architectures, Vol. 1773, 5 pp., 1992 * J. Zhang, et al., "Switchable Liquid Crystalline Photopolymer Media for Holography," J Am. Chem. Soc., Vol. 114(4), pp. 1506-1507, 1992 * Richard T. Ingwall and Timothy Adams, "Hologram: Liquid Crystal Composites, SPIE Proceedings, Vol. 1555, pp. 279-290, July 24-25, 1991 * A. M. Lackner, et al., "Droplet Size Control in Polymer Dispersed Liquid Crystal Films, SPIE Proceedings, Vol. 1080, pp. 53-61, January 17-18, 1989 * G. von Bally, W. Schmidthaus, H. Sakowski, and W. Mette, "Gradient-Index Optical Systems in Holographic Endoscopy," Applied Optics, Vol. 23, No. 11, pp. 1725-1729, June 1, 1984 * A. R. Tokuda, D. C. Auth, A. P. Bruckner, "Holocamera for 3-D Micrography of the Alert Human Eye," Applied Optics, Vol. 19, No. 13, pp. 2219-2225, July 1, 1980 * S. A. Benton, H. S. Mingrace, W. R. Walter, "One-Step White-Light Transmission Holography," SPIE, Vol. 215, pp. 156-161, 1980		
an Acrylate Polymer Consisting of Periodic Polymer-Dispersed Liquid-Crystal Planes," Chem. Mater., Vol. 5, pp. 1533-1538, 1993 * D. J. Lougnot, N. Noriet, and C. N. Turck, "Photopolymers for Holographic Recording: IV. New Self-Processing Formulations Based on B-Hydroxy Ethyloxazolidone Acrylate Pure Appl. Opt., Vol. 2, pp. 383-392, 1993 * H. I. Bjelkhagen, J. Chang, and K. Moneke, "High-Resolution Contact Denisyuk Holography," Applied Optics, Vol. 31, No. 8, pp. 1041-1047, March 10, 1992 * Hideya Murai, et al., "Electro-Optic Properties for Liquid Crystal Phase Gratings," SPIE Proceedings, Vol. 1665, pp. 230-239, February 11-13, 1992 * Lawrence H. Domash, "Applications of Dynamic Holograms for Quasi-Volume Storage SPIE Proceedings, Very Large Optical Memories-Materials and System Architectures, Vol. 1773, 5 pp., 1992 * J. Zhang, et al., "Switchable Liquid Crystalline Photopolymer Media for Holography," J Am. Chem. Soc., Vol. 114(4), pp. 1506-1507, 1992 * Richard T. Ingwall and Timothy Adams, "Hologram: Liquid Crystal Composites, SPIE Proceedings, Vol. 1555, pp. 279-290, July 24-25, 1991 * A. M. Lackner, et al., "Droplet Size Control in Polymer Dispersed Liquid Crystal Films, SPIE Proceedings, Vol. 1080, pp. 53-61, January 17-18, 1989 * G. von Bally, W. Schmidthaus, H. Sakowski, and W. Mette, "Gradient-Index Optical Systems in Holographic Endoscopy," Applied Optics, Vol. 23, No. 11, pp. 1725-1729, June 1, 1984 * A. R. Tokuda, D. C. Auth, A. P. Bruckner, "Holocamera for 3-D Micrography of the Alert Human Eye," Applied Optics, Vol. 19, No. 13, pp. 2219-2225, July 1, 1980 * S. A. Benton, H. S. Mingrace, W. R. Walter, "One-Step White-Light Transmission Holography," SPIE, Vol. 215, pp. 156-161, 1980 DATE CONSIDERED	OTHI	ER DOCUMENTS CONT'D. (Including Author, Title, Date, Pertinent Pages, Etc.)
IV. New Self-Processing Formulations Based on ß-Hydroxy Ethyloxazolidone Acrylate Pure Appl. Opt., Vol. 2, pp. 383-392, 1993 * H. I. Bjelkhagen, J. Chang, and K. Moneke, "High-Resolution Contact Denisyuk Holography," Applied Optics, Vol. 31, No. 8, pp. 1041-1047, March 10, 1992 * Hideya Murai, et al., "Electro-Optic Properties for Liquid Crystal Phase Gratings," SPIE Proceedings, Vol. 1665, pp. 230-239, February 11-13, 1992 * Lawrence H. Domash, "Applications of Dynamic Holograms for Quasi-Volume Storage SPIE Proceedings, Very Large Optical Memories-Materials and System Architectures, Vol. 1773, 5 pp., 1992 * J. Zhang, et al., "Switchable Liquid Crystalline Photopolymer Media for Holography," J. Am. Chem. Soc., Vol. 114(4), pp. 1506-1507, 1992 * Richard T. Ingwall and Timothy Adams, "Hologram: Liquid Crystal Composites, SPIE Proceedings, Vol. 1555, pp. 279-290, July 24-25, 1991 * A. M. Lackner, et al., "Droplet Size Control in Polymer Dispersed Liquid Crystal Films, SPIE Proceedings, Vol. 1080, pp. 53-61, January 17-18, 1989 * G. von Bally, W. Schmidthaus, H. Sakowski, and W. Mette, "Gradient-Index Optical Systems in Holographic Endoscopy," Applied Optics, Vol. 23, No. 11, pp. 1725-1729, June 1, 1984 * A. R. Tokuda, D. C. Auth, A. P. Bruckner, "Holocamera for 3-D Micrography of the Alert Human Eye," Applied Optics, Vol. 19, No. 13, pp. 2219-2225, July 1, 1980 * S. A. Benton, H. S. Mingrace, W. R. Walter, "One-Step White-Light Transmission Holography," SPIE, Vol. 215, pp. 156-161, 1980 DATE CONSIDERED	*	
# Hideya Murai, et al., "Electro-Optic Properties for Liquid Crystal Phase Gratings," SPIE Proceedings, Vol. 1665, pp. 230-239, February 11-13, 1992 * Lawrence H. Domash, "Applications of Dynamic Holograms for Quasi-Volume Storage SPIE Proceedings, Very Large Optical Memories-Materials and System Architectures, Vol. 1773, 5 pp., 1992 * J. Zhang, et al., "Switchable Liquid Crystalline Photopolymer Media for Holography," J Am. Chem. Soc., Vol. 114(4), pp. 1506-1507, 1992 * Richard T. Ingwall and Timothy Adams, "Hologram: Liquid Crystal Composites, SPIE Proceedings, Vol. 1555, pp. 279-290, July 24-25, 1991 * A. M. Lackner, et al., "Droplet Size Control in Polymer Dispersed Liquid Crystal Films, SPIE Proceedings, Vol. 1080, pp. 53-61, January 17-18, 1989 * G. von Bally, W. Schmidthaus, H. Sakowski, and W. Mette, "Gradient-Index Optical Systems in Holographic Endoscopy," Applied Optics, Vol. 23, No. 11, pp. 1725-1729, June 1, 1984 * A. R. Tokuda, D. C. Auth, A. P. Bruckner, "Holocamera for 3-D Micrography of the Alert Human Eye," Applied Optics, Vol. 19, No. 13, pp. 2219-2225, July 1, 1980 * S. A. Benton, H. S. Mingrace, W. R. Walter, "One-Step White-Light Transmission Holography," SPIE, Vol. 215, pp. 156-161, 1980 EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609, draw line through citation if not in conformance and not	*	IV. New Self-Processing Formulations Based on \(\beta \)-Hydroxy Ethyloxazolidone Acrylate,
* Lawrence H. Domash, "Applications of Dynamic Holograms for Quasi-Volume Storage SPIE Proceedings, Very Large Optical Memories-Materials and System Architectures, Vol. 1773, 5 pp., 1992 * J. Zhang, et al., "Switchable Liquid Crystalline Photopolymer Media for Holography," J. Am. Chem. Soc., Vol. 114(4), pp. 1506-1507, 1992 * Richard T. Ingwall and Timothy Adams, "Hologram: Liquid Crystal Composites, SPIE Proceedings, Vol. 1555, pp. 279-290, July 24-25, 1991 * A. M. Lackner, et al., "Droplet Size Control in Polymer Dispersed Liquid Crystal Films, SPIE Proceedings, Vol. 1080, pp. 53-61, January 17-18, 1989 * G. von Bally, W. Schmidthaus, H. Sakowski, and W. Mette, "Gradient-Index Optical Systems in Holographic Endoscopy," Applied Optics, Vol. 23, No. 11, pp. 1725-1729, June 1, 1984 * A. R. Tokuda, D. C. Auth, A. P. Bruckner, "Holocamera for 3-D Micrography of the Alert Human Eye," Applied Optics, Vol. 19, No. 13, pp. 2219-2225, July 1, 1980 * S. A. Benton, H. S. Mingrace, W. R. Walter, "One-Step White-Light Transmission Holography," SPIE, Vol. 215, pp. 156-161, 1980 EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not	*	
* J. Zhang, et al., "Switchable Liquid Crystalline Photopolymer Media for Holography," J. Am. Chem. Soc., Vol. 114(4), pp. 1506-1507, 1992 * Richard T. Ingwall and Timothy Adams, "Hologram: Liquid Crystal Composites, SPIE Proceedings, Vol. 1555, pp. 279-290, July 24-25, 1991 * A. M. Lackner, et al., "Droplet Size Control in Polymer Dispersed Liquid Crystal Films, SPIE Proceedings, Vol. 1080, pp. 53-61, January 17-18, 1989 * G. von Bally, W. Schmidthaus, H. Sakowski, and W. Mette, "Gradient-Index Optical Systems in Holographic Endoscopy," Applied Optics, Vol. 23, No. 11, pp. 1725-1729, June 1, 1984 * A. R. Tokuda, D. C. Auth, A. P. Bruckner, "Holocamera for 3-D Micrography of the Alert Human Eye," Applied Optics, Vol. 19, No. 13, pp. 2219-2225, July 1, 1980 * S. A. Benton, H. S. Mingrace, W. R. Walter, "One-Step White-Light Transmission Holography," SPIE, Vol. 215, pp. 156-161, 1980 EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not	*	That ya ivital i, ct al., Electro optic Proporties for Eliquid Crystal Place Granings, 51 12
* Richard T. Ingwall and Timothy Adams, "Hologram: Liquid Crystal Composites, SPIE Proceedings, Vol. 1555, pp. 279-290, July 24-25, 1991 * A. M. Lackner, et al., "Droplet Size Control in Polymer Dispersed Liquid Crystal Films, SPIE Proceedings, Vol. 1080, pp. 53-61, January 17-18, 1989 * G. von Bally, W. Schmidthaus, H. Sakowski, and W. Mette, "Gradient-Index Optical Systems in Holographic Endoscopy," Applied Optics, Vol. 23, No. 11, pp. 1725-1729, June 1, 1984 * A. R. Tokuda, D. C. Auth, A. P. Bruckner, "Holocamera for 3-D Micrography of the Alert Human Eye," Applied Optics, Vol. 19, No. 13, pp. 2219-2225, July 1, 1980 * S. A. Benton, H. S. Mingrace, W. R. Walter, "One-Step White-Light Transmission Holography," SPIE, Vol. 215, pp. 156-161, 1980 EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not	*	SPIE Proceedings, Very Large Optical Memories-Materials and System Architectures,
* A. M. Lackner, et al., "Droplet Size Control in Polymer Dispersed Liquid Crystal Films, SPIE Proceedings, Vol. 1080, pp. 53-61, January 17-18, 1989 * G. von Bally, W. Schmidthaus, H. Sakowski, and W. Mette, "Gradient-Index Optical Systems in Holographic Endoscopy," Applied Optics, Vol. 23, No. 11, pp. 1725-1729, June 1, 1984 * A. R. Tokuda, D. C. Auth, A. P. Bruckner, "Holocamera for 3-D Micrography of the Alert Human Eye," Applied Optics, Vol. 19, No. 13, pp. 2219-2225, July 1, 1980 * S. A. Benton, H. S. Mingrace, W. R. Walter, "One-Step White-Light Transmission Holography," SPIE, Vol. 215, pp. 156-161, 1980 EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not	*	J. Zhang, et al., Switchaole Elquid Crystamine I hotoporymor wedia for frotography, v.
* G. von Bally, W. Schmidthaus, H. Sakowski, and W. Mette, "Gradient-Index Optical Systems in Holographic Endoscopy," Applied Optics, Vol. 23, No. 11, pp. 1725-1729, June 1, 1984 * A. R. Tokuda, D. C. Auth, A. P. Bruckner, "Holocamera for 3-D Micrography of the Alert Human Eye," Applied Optics, Vol. 19, No. 13, pp. 2219-2225, July 1, 1980 * S. A. Benton, H. S. Mingrace, W. R. Walter, "One-Step White-Light Transmission Holography," SPIE, Vol. 215, pp. 156-161, 1980 EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not	*	
Systems in Holographic Endoscopy," Applied Optics, Vol. 23, No. 11, pp. 1725-1729, June 1, 1984 * A. R. Tokuda, D. C. Auth, A. P. Bruckner, "Holocamera for 3-D Micrography of the Alert Human Eye," Applied Optics, Vol. 19, No. 13, pp. 2219-2225, July 1, 1980 * S. A. Benton, H. S. Mingrace, W. R. Walter, "One-Step White-Light Transmission Holography," SPIE, Vol. 215, pp. 156-161, 1980 EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not	*	71. W. Eackher, et al., Droplet blee Control in Forginer Dispersed Enquire Crystal I in Es,
* S. A. Benton, H. S. Mingrace, W. R. Walter, "One-Step White-Light Transmission Holography," SPIE, Vol. 215, pp. 156-161, 1980 EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not	*	Systems in Holographic Endoscopy," Applied Optics, Vol. 23, No. 11, pp. 1725-1729,
Holography," SPIE, Vol. 215, pp. 156-161, 1980 EXAMINER DATE CONSIDERED EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not	*	
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not	*	
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not		
	EXAMINER	DATE CONSIDERED

^{*} Reference cited in parent (Application Serial No. 09/577,166), and not provided herewith.

OTHE	R DOCUMENTS CONT'D. (Including Author, Title, Date, Pertinent Pages, Etc.)			
*	S. A. Benton, H. S. Mingrace, W. R. Walter, "One-Step White-Light Transmission Holography," <i>SPIE</i> , Vol. 212, pp. 2-7, 1979			
	Hori, Asai, and Fukai, "Field-Controllable Liquid-Crystal Phase Grating," <i>IEEE</i> , Vol. ED-16, p. 1734 (4 pp.), 1979			
	Edited by H. Bennett, "Cooncise Chemical and Technical Dictionary, FAIC" Chemical Publishing Co., Inc., 1974			
	R. A. Kashnow and J. E. Bigelow, "Diffraction From a Liquid Crystal Phase Grating," <i>Applied Optics</i> , Vol. 12, No. 10, pp. 2302-2304, October, 1973			
	G. W. Stroke, A. E. Labeyrie, "White-Light Reconstruction of Holographic Images Using the Lippmann-Bragg Diffraction Effect," <i>Physics Letters</i> , Vol. 20, No. 4, pp. 368-370, March 1, 1966			
	Stoke, Funkhouser, Leonard, Indebetoew, and Zech, "Hand-Held Holography," 1 p., September 19, 1966			
EXAMINER	DATE CONSIDERED			
	itation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not dered. Include copy of this form with next communication.			

Form PTO-FB A820 36609/297074 WSHLIB01:210378

^{*} Reference cited in parent (Application Serial No. 09/577,166), and not provided herewith.